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L4: Entry 5 of 5

foad, Raymond Anthony
File: USPT

Sep 4, 2001

DOCUMENT-IDENTIFIER: US 6283761 B1

TITLE: Apparatus and method for processing and/or for providing healthcare information and/or healthcare-related information

Abstract Text (1):

An improved apparatus and method for providing healthcare information, the apparatus comprising a processor for processing at least one of symptom information and condition information corresponding to a patient, in conjunction with at least one of healthcare information, healthcare theories, healthcare principles, and healthcare research, wherein the processor generates a diagnostic report, and further wherein the diagnostic report contains information regarding at least one of a diagnosis and a possible diagnosis for the at least one of symptom information and condition information. The improvement includes the processor generating a diagnostic report containing a list of possible diagnoses, a transmitter for transmitting the diagnostic report to at least one of a computer and a communication device associated with a healthcare provider, and a receiver for receiving a final diagnosis from the list of possible diagnoses, wherein the final diagnosis is received from the at least one of a computer and a communication device associated with the healthcare provider. The processor generates a claim form for submission to at least one of a healthcare payer and a healthcare insurer.

Brief Summary Text (6):

Another problem lies with the fact that the main source of patient information, medical histories, family histories, etc., upon which doctors or providers may base their diagnoses and/or treatments, are patients who usually supply this information on questionnaires or forms just prior to seeing the healthcare provider and/or during a preliminary interview with the provider. In this regard, information obtained from these questionnaires or forms, as well as from these preliminary interviews with the providers, may not necessarily result in sufficient, comprehensive, and/or accurate, information being obtained regarding the patient. Further, there is no guarantee that the same information will be provided, in a uniform manner, to a next or different provider. As a result, patient information may not be uniformly distributed and/or be available to providers at the point of treatment and/or otherwise.

Brief Summary Text (15):

The present invention facilitates improved healthcare quality, efficient information collection, processing and dissemination, efficient diagnosis and treatment, cost efficiency, cost containment, as well as many other benefits and advantages as will be described herein. The apparatus and method of the present invention also facilitates the distribution and management of healthcare insurance, life insurance, disability insurance, as well as claims processing related thereto.

Detailed Description Text (3):

The apparatus and method of the present invention also facilitates the distribution and management of healthcare insurance, life insurance, disability insurance, as well as claims processing related thereto.

Detailed Description Text (28):

The database 10H contains any and/or all of the information needed and/or required in order to perform any and/or all of the functions, services and/or operations described herein as being performed by the central processing computer 10 or the apparatus 100 of the present invention. In this regard the database 10H contains data and/or information regarding patient name, patient identification information, patient social security number or other identification information, date of birth, doctors or providers, therapists, nutritionists, insurance or payer information, group insurance information, group health insurance information, life insurance

information, disability insurance information, patient address, phone number, e-mail and/or other contact information, medical history, psychological history, dental history, family history, family medical, psychological, and/or dental history, insurance coverage, insurance co-payment and/or deductible information, insurance information, insurance claim procedures, insurance claim forms, doctor or provider appointment schedules, past treatments, past diagnosis, symptoms, insurance claim forms, employer information, lifestyle information, treatment plans, treatment progress, broker/agent/intermediary information, education information, age, sex, marital status, employee benefits information, types or services and/or treatments needed, and any other data and/or information regarding the patient which would be needed and/or desired in order to perform any and/or all of the functions, services and/or operations described herein.

Detailed Description Text (32):

The database 10H also contains information regarding The insurance companies and payers described herein, including, but not limited to, payer name, address, phone number, fax number, e-mail address, identification number(s), coverage types, policies and/or coverages provided, reimbursement rates, patients and/or providers serviced and/or covered by the payer, policy information, claim forms, claim procedures, claim status, claim processing information, claim submission procedures and policies, reasonable and customary charges, co-payment information, pre-approval information and/or procedures, claim form information, electronic form claim forms, insurance and/or coverage requirements, guidelines, and/or triggering events, covered procedures and/or treatments, uncovered procedures and/or treatments, claim approval information, claim approval history, claim approval statistics, claim rejection or denial information, claim rejection or denial history, claim rejection or denial statistics, financial account information, network provider information, network patient information, claim statistics, preventative care and/or benefits information, benefits information, benefits request information and/or claim forms, claim submission information, claim processing information, claim status information, payment information and statistics, and/or any other data and/or information regarding and/or related to payers which are needed and/or desired for providing any and/or all of the functions, services, and/or operations described herein.

Detailed Description Text (34):

The database 10H also includes contact information such as phone numbers, fax numbers, pager numbers, beeper numbers, e-mail addresses, hyperlinks to, and/or any other information which can facilitate contact between any of the parties described herein. The database 10H also includes electronic signature data and/or information for any of the parties, patients, providers, payers, and/or intermediaries, described herein for facilitating transactions, claim submissions, financial transactions, etc., by and/or between any of the above patients, providers, payers, and/or intermediaries.

Detailed Description Text (44):

Data and/or information stored in the database 10H as well as any of the other databases described herein can be updated by multiple parties. For example, a patient may provided medical history for his or her individual file, his or her medical doctor can update the medical history information for the patient upon examining and/or treating him or her. The payer may also update the file with any associated payment or payment-related information. Should the patient go to another doctor or different type of doctor, all previous information would be available for, and can be updateable by, the next doctor.

Detailed Description Text (90):

In any and/or all of the embodiments described herein, the central processing computer 10, in performing any processing of patient information, diagnosis information, and/or treatment information, described herein, can perform such processing in conjunction with drug and/or other treatment interaction information so as to provide an added safeguard in the diagnosis and treatment planning processes. Any and/or all processing described herein is also performed in conjunction with each patient's medical history, family history, allergic conditions information, and/or with any other information deemed important and/or essential in the an individual's healthcare diagnoses and/or treatments.

Detailed Description Text (93):

With reference to FIGS. 8A and 8B, the operation of the apparatus 100 commences at step 800. At step 801, the payer or payer's employee or agent (hereinafter, for simplicity, referred to at payer's employee) can access the central processing computer 10. At step the payer's employee

can enter information concerning the patient, the treatment, and/or care, which is desired to be evaluated and/or monitored. At step 802, the central processing computer 10 will access the database 10H and obtain patient information, patient medical history, family history, if pertinent, symptom information, provider information, diagnostic report information, treatment report information, final diagnoses information, prescribed treatment information, and/or any other information which can be relevant and/or pertinent. Any and/or all of the information described above can be stored in the database 10H from prior processing and/or use of the present invention. Other data and/or information can also be obtained from the payer's employee and/or from other third party and/or outside sources.

Detailed Description Text (99):

At step 904, the patient will provide information concerning the present healthcare request and present provider information. At step 905, the central processing computer 10, will then determine if the present provider is a new provider. If, at step 905, it is determined that the present provider is a new provider, the central processing computer 10 will proceed to step 906 and update the patient's files or records so as to include the present provider as a new provider for the patient. Thereafter, the central processing computer 10 will proceed to step 907 and will process and store, in the database 10H and/or in the patient's files or records, any pertinent patient information, symptoms, diagnoses and/or treatments, final diagnosis and/or prescribed treatment, for the provider visit or for the event or occurrence.

Detailed Description Text (100):

If, however, at step 905, it is determined that the present provider is an existing provider for the patient, the central processing computer 10 will proceed directly to step 907 and process and store, in the database 10H and/or in the patient's files or records, any pertinent patient information, symptoms, diagnoses and/or treatments, final diagnosis and/or prescribed treatment, for the provider visit or for the event or occurrence. Thereafter, operation of the present invention will cease at step 908.

Detailed Description Text (119):

FIGS. 11A and 11B illustrate another preferred embodiment method of using the present invention, in flow diagram form. In the embodiment of FIGS. 11A and 11B, provider scheduling information can be stored in the database 10H. Operation of the apparatus 100 commences at step 1100. At step 1101, the patient accesses the central processing computer 10 and requests the schedule or schedules of a provider or a number of providers. At step 1102, the central processing computer 10 provides the schedule information to the patient. At step 1103, the patient can select the appointment he or she wishes to make.

Detailed Description Text (129):

The operation of the apparatus 100 commences at step 1200. At step 1201, the provider can access the central processing computer 10. At step 1202, the provider can select and/or enter the information concerning the notifying event, happening, and/or occurrence, and/or the conditions for notifying the provider. For example, an obstetrician can request to be notified when a pregnant patient enters a hospital in labor. At step 1203, the central processing computer 10 processes the above information. At step 1204, the central processing computer 10, upon receiving information concerning the pregnant patient's admission to the hospital, will process the pregnant patient's information.

CLAIMS:

1. In an apparatus for providing healthcare information, said apparatus comprising a processor for processing at least one of symptom information and condition information corresponding to a patient, in conjunction with at least one of healthcare information, healthcare theories, healthcare principles, and healthcare research, wherein said processor generates a diagnostic report, and further wherein said diagnostic report contains information regarding at least one of a diagnosis and a possible diagnosis for the at least one of symptom information and condition information, the improvement comprising:

said processor generating a diagnostic report containing at least one of a diagnosis, a possible diagnosis, and a list of possible diagnoses, wherein said improved apparatus further comprises:

a transmitter for transmitting said diagnostic report to at least one of a computer and a

communication device associated with a healthcare provider; and

a receiver for receiving a final diagnosis from said at least one of a computer and a communication device associated with the healthcare provider, and further wherein said processor generates a claim form for submission to at least one of a healthcare payer and a healthcare insurer.

8. The apparatus of claim 1, further comprising:

an input device for inputting information regarding at least one of healthcare information, patient information, and a command, into said apparatus; and

at least one of a display device for displaying information at least one of processed by and provided by the apparatus and an output device for outputting information at least one of processed by and provided by the apparatus.

10. In an apparatus for providing healthcare information, said apparatus comprising a processor for processing at least one of symptom information and condition information corresponding to a patient, in conjunction with at least one of healthcare information, healthcare theories, healthcare principles, and healthcare research, wherein said processor generates at least one of a diagnostic report and a treatment report, wherein said diagnostic report contains information regarding at least one of a diagnosis and a possible diagnosis for the at least one of symptom information and condition information, and wherein said treatment report contains information regarding a treatment for the at least one of a diagnosis and a possible diagnosis, the improvement comprising:

a receiver for receiving treatment information regarding a treatment to be administered to a patient, wherein said treatment information is received from at least one of a computer and a communication device associated with a healthcare provider, wherein said processor processes said treatment information in conjunction with said at least one of a diagnostic report and a treatment report, and further wherein said processor generates a treatment response message, wherein said treatment response message contains information for at least one of verifying a treatment to be performed as being correct and providing information for correcting an incorrect treatment; and

a transmitter for transmitting said treatment response message to the at least one of a computer and communication device associated with the healthcare provider.

14. In a method for providing healthcare information, said method comprising processing at least one of symptom information and condition information corresponding to a patient, in conjunction with at least one of healthcare information, healthcare theories, healthcare principles, and healthcare research, and generating a diagnostic report, wherein said diagnostic report contains information regarding at least one of a diagnosis and a possible diagnosis for the at least one of symptom information and condition information, the improvement comprising:

generating a diagnostic report containing at least one of a diagnosis, a possible diagnosis, and a list of possible diagnoses;

transmitting said diagnostic report to at least one of a computer and a communication device associated with a healthcare provider;

receiving a final diagnosis from said at least one of a computer and a communication device associated with the healthcare provider; and

generating a claim form for submission to at least one of a healthcare payer and a healthcare insurer.

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PARENT-CASE:

RELATED APPLICATIONS This is a continuation-in-part application of U.S. patent application Ser. No. 09/162,889, filed Sep. 29, 1998, which is a continuation application of U.S. patent application Ser. No. 08/600,771, filed Feb. 13, 1996, now U.S. Pat. No. 5,961,332, which is a divisional application of U.S. patent application Ser. No. 07/941,413, filed Sep. 8, 1992, abandoned.

INT-CL: [07] G09 B 19/00

US-CL-ISSUED: 434/236; 434/238, 128/923

US-CL-CURRENT: 434/236; 128/923, 434/238

FIELD-OF-SEARCH: 434/236-238, 128/920, 128/923

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4803652</u>	February 1989	Maeser et al.	
<u>4895518</u>	January 1990	Arnold et al.	
<u>5036852</u>	August 1991	Leishman	600/301
<u>5070452</u>	December 1991	Doyle, Jr. et al.	
<u>5185857</u>	February 1993	Rozmanith et al.	
<u>5217379</u>	June 1993	Kirschenbaum et al.	
<u>5219322</u>	June 1993	Weathers	
<u>5262943</u>	November 1993	Thibado et al.	600/300
<u>5265010</u>	November 1993	Evans-Paganelli et al.	600/301
<u>5344324</u>	September 1994	O'Donnell et al.	
<u>5404292</u>	April 1995	Hendrickson	600/301
<u>5424945</u>	June 1995	Bell	
<u>5435324</u>	July 1995	Brill	
<u>5544649</u>	August 1996	David et al.	600/301
<u>5696981</u>	December 1997	Shovers	

OTHER PUBLICATIONS

L. McCullough et al., "The Development of a Microcomputer-Based Mental Health Information System, a Potential Tool for Bridging the Scientist-Practitioner Gap", American Psychologist, Feb. 1986, pp. 207-213.

ART-UNIT: 374

PRIMARY-EXAMINER: Richman; Glenn E.

ATTY-AGENT-FIRM: Joao; Raymond A.

ABSTRACT:

An improved apparatus and method for providing healthcare information, the apparatus comprising a processor for processing at least one of symptom information and condition information corresponding to a patient, in conjunction with at least one of healthcare information, healthcare theories, healthcare principles, and healthcare research, wherein the processor generates a diagnostic report, and further wherein the diagnostic report contains information regarding at least one of a diagnosis and a possible diagnosis for the at least one of symptom information and condition information. The improvement includes the processor generating a

diagnostic report containing a list of possible diagnoses, a transmitter for transmitting the diagnostic report to at least one of a computer and a communication device associated with a healthcare provider, and a receiver for receiving a final diagnosis from the list of possible diagnoses, wherein the final diagnosis is received from the at least one of a computer and a communication device associated with the healthcare provider. The processor generates a claim form for submission to at least one of a healthcare payer and a healthcare insurer.

20 Claims, 24 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	IPC Class	Claims	RWD	Draw Desc	Image
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Term	Documents
ELECTRONIC	1497132
ELECTRONICS	690310
SIGNATURE	163352
SIGNATURES	36539
(3 AND (SIGNATURE NEAR ELECTRONIC)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5
(L3 AND (ELECTRONIC NEAR SIGNATURE)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5

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☐ 1. Document ID: US 20030088441 A1

L4: Entry 1 of 5

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030088441

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030088441 A1

TITLE: System for the integrated management of healthcare information

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
McNerney, Michelle	Freehold	NJ	US	

US-CL-CURRENT: 705/3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWC	Draw Desc	Image
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☐ 2. Document ID: US 20030041061 A1

L4: Entry 2 of 5

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030041061

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030041061 A1

TITLE: Method, systems and apparatuses for managing specialized healthcare needs

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Parmar, Rohit J.	Dallas	TX	US	

US-CL-CURRENT: 707/9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWC	Draw Desc	Image
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☐ 3. Document ID: US 20020032583 A1

L4: Entry 3 of 5

File: PGPB

Mar 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020032583

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020032583 A1

TITLE: Apparatus and method for processing and/or for providing healthcare information and/or healthcare-related information

PUBLICATION-DATE: March 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Joao, Raymond Anthony	Yonkers	NY	US	

US-CL-CURRENT: 705/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
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☐ 4. Document ID: US 20010032099 A1

L4: Entry 4 of 5

File: PGPB

Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010032099

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010032099 A1

TITLE: Apparatus and method for processing and/or for providing healthcare information and/or healthcare-related information

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Joao, Raymond Anthony	Yonkers	NY	US	

US-CL-CURRENT: 705/2; 600/300, 705/3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
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☐ 5. Document ID: US 6283761 B1

L4: Entry 5 of 5

File: USPT

Sep 4, 2001

US-PAT-NO: 6283761

DOCUMENT-IDENTIFIER: US 6283761 B1

TITLE: Apparatus and method for processing and/or for providing healthcare information and/or healthcare-related information

DATE-ISSUED: September 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Joao; Raymond Anthony	Yonkers	NY	10703	

APPL-NO: 09/ 476651 [PALM]

DATE FILED: December 31, 1999

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